

Meeting Minutes  
July 22, 2003  
Tri-Party Agreement Milestone Review

Approval:

*Michael A. Wilson*  
Michael A. Wilson  
Ecology IAMIT Representative

Date: 8/26/03

(B5-18)

Approval:

*W. Wade Ballard*  
W. Wade Ballard  
RL IAMIT Representative

Date: 8/26/03

(A5-12)

Approval:

*N/A*  
Jim E. Rasmussen  
ORP IAMIT Representative

Date: \_\_\_\_\_

(H6-60)

Approval:

*Nick Ceto*  
Nick Ceto  
EPA Chairperson and IAMIT Representative

Date: 8/26/03

(B5-01)

**RECEIVED**  
SEP 11 2003  
**EDMC**

Minutes Prepared by:

Approval:

*Eileen Murphy-Fitch*  
Eileen Murphy-Fitch  
Fluor Hanford, Inc.

Date: 8/25/03

(A4-25)

Aromi, E. S.	CHG	H6-63	Mattlin, E. M.	RL	A5-15*
Bartus, D.	EPA	B5-18	McKenney, D. E.	FG	H8-44
Bazzell, K. D.	RL	A3-04	Miskho, A. G.	FH	N1-26
Berg, G. M.	FH	L3-02	Morrison, R. D.	FH	A4-25*
Bilson, H. E.	RL	A3-04	Murphy-Fitch, E. J.	FH	A4-25*
Bond, R.	Ecology	B5-18	Niles, K. S.	ODOE	
Borghese, J. V.	FH	E3-65	Piippo, R. E.	FH	A4-25
Brown, M. E.	Ecology	B5-18*	Price, J.	Ecology	B5-18*
Buxbaum, M.	FH	B3-53*	Rodriguez, C.	WTEC	A4-79
Cameron, C.	EPA	B5-01	Rodriguez, H. M.	RL	A5-15
Clark, C. E.	RL	A5-15	Romine, L. D.	RL	A6-33
Cusack, L.	Ecology	B5-18*	Russell, W.	ORP	H6-60
Dagan, E. B.	RL	A5-15	Ruud, L.	Ecology	B5-18
Foley, B. L.	RL	A6-38	Schepens, R. J.	RL	H6-60
Ford, Bruce H.	FH	E6-35	Skinnarland, E. R.	Ecology	B5-18
Fritz, L.	FH	H8-44	Sobczyk, S.	NezPerce	
Gadbois, L.	EPA	B5-01	Stanley, R.	Ecology	Lacey*
Gay, R.	CTUIR		Thompson, S.	FH	H5-27
Hebdon, J. B.	DOE	A5-15	VanLeuven, D. B.	FH	H5-20
Hedges, J.	Ecology	B5-18	Veitenheimer, S. J.	RL	A4-79
Henry, G.	ODOE		Watson, D.	FH	X3-79
Hertzel, J. S.	FH	A4-25	Wilde, R.	FH	E6-35
Hopkins, A.	FH	H8-25	Williams, J. D.	FH	L5-66
Jackson, R.	FH	E6-35	Winterhalder, J. A.	FH	E6-35
Jim, R.	YIN*		Wilson, M. A.	Ecology	B5-18
Langstaff, D.	RL	A4-70	Wright, A. K.	RL	A6-33
LaRue, D. N.	BHI	H0-11	Administrative Record	EDMC	H6-08*
Leary, K. D.	RL	A6-38			

\*w/Attachments File

**Tri-Party Agreement Milestone Review**  
**July 22, 2003**

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**Spent Nuclear Fuel, M-034-00**

Presented by: Larry Early, RL

Start: 9:10 a.m.

End: 9:25 a.m.

Mr. Larry Earley was introduced as a new member of the SNF Team. A status of fiscal year milestones was given.

- Tri-Party Agreement Interim Milestone M-034-08, *Initiate Full Scale K East Basin Sludge Removal*, due December 31, 2002, is behind schedule. Sludge removal will be initiated following completion of the Contractor ORR.

Two FY 2004 Tri-Party Agreement Interim Milestones and one target date are forecast for early completion:

- Tri-Party Agreement Milestone M-034-28, *Complete Removal of 1,619 MTHM from the K West Basin*, due December 31, 2003 (forecast completion date [FCD]: October 2003)
- Tri-Party Agreement target date M-034-25-T01, *Complete Transfer of K East Basin SNF to K West Basin*, due May 31, 2004 (FCD December 2003)
- M-034-18B, *Complete Removal of all K Basin SNF*, due July 31, 2004 (FCD March 2004).

A proposed Deactivation Plan was developed and submitted to RL at the end of June 30, 2003. The plan described three approaches:

- Grout and Remove (contractors recommended approach; accelerates the demolition of K Basins six years earlier than currently agreed to in the Tri-Party Agreement; uses grout and remove technique for D&D of basins, reduces potential for worker exposure and realizes \$10 million savings to SNF Project baseline and an additional \$10+ to basins' life-cycle costs).
- Enhanced baseline (accelerates deactivation of basins (cold/dark/dry) by 18 months and is based on manual underwater move/cut of racks and debris).
- Robotics (same as the enhanced baseline approach, except uses automation to replace hands-on labor).

The Project is currently one multi-canister overpack (MCO) and .48 MTHM behind schedule. The Fuel Transfer System is currently one shipment (ten canisters) ahead of schedule. The contractor ORR for the Sludge Water System (SWS) Startup was paused and corrective action plan developed. This should not impact the August 2004 Tri-Party Agreement due date. Formal agreement was reached between SNF, FFTF, and PFP on receipt and storage of Category I/II spent fuel at the CSB to support FFTF deactivation and PFP deinventory. Preparations continued for K Basins receipt of spent fuel discovered at D Reactor and H Reactor Basin.

SNF project issues/concerns discussed were the timeliness of EPA's review and approval of the Risk-Based Disposal Approval for Polychlorinated Biphenyls (PCB) at the 200 Area Liquid Waste Process

Facilities and the impact of recent contract changes to accelerate cleanup of the K Basins on the Tri-Party Agreement.

No significant regulatory issues or actions requiring follow-up were identified; presentation attached.

#### **PFP Transition (M-083)**

Presented by: Larry Romine, RL

Start: 9:27 a.m.

End: 9:38 a.m.

FY 2003 Milestones remain on schedule. As of June 2003, approximately 1,500 oxide items were stabilized since the beginning of FY 2003 (37 items ahead of schedule). Low temperature stabilization was initiated in June 2003. Repackaging of the combustibles, miscellaneous, compounds, and reduction residues were completed on May 30, 2003; Group 2 alloys on July 3, 2003. WIPP recertification audits were completed in June which reviewed visual examination technique(s), NDA (SGSAS and calorimetry), and solid sampling at PFP. No corrective actions were identified but two recommendations were made. Since October 1, 2003, approximately 688 containers (3013) were produced - 26 containers ahead of the FY 2003 production baseline.

Action from April 22, 2003 Tri-Party Agreement Milestone Review:

Action: Resolve concerns on NEPA to CERCLA and definitions (i.e., below-ground versus below slab; underground structures, etc.)

Actionee: Dennis Faulk, EPA; Rick Bond, Ecology; and, Allison Wright, RL

Status: Action remains open. Ecology and EPA are to meet to discuss waste certification language.

PFP Project potential issues/requests for assistance identified the need for a better understanding of the 232-Z EE/CA waste certification issue and a decision on consolidation of nuclear material at SRS and SRS material acceptance criteria.

Presentation attached.

#### **Central Plateau (M-013, M-015, M-016, M-020, and M-024)**

Presented by: Bryan Foley

Start: 9:40 a.m.

End: 9:50 a.m.

All CY 2004 Central Plateau Tri-Party Agreement milestones will be completed on or ahead of schedule.

Three Tri-Party Agreement milestones were completed on schedule during the reporting period:

- M-015-40B, *Submit 200-CW-5 U Pond/Z Ditches Cooling Water RI Report, Including Past Practice Waste Sites in the 200-CW-2 S Ponds/Ditches Cooling Water Group, the 200-CW-4 T Ponds/Ditches Cooling Water Group and the 200-SC-1 Steam Condensate Group*, due May 31, 2003

- M-015-47, *Submit a Proposed Plan to Conduct Remedial Action(s) For Source Control at High Risk Waste Site(s) which Includes a Engineering Evaluation of an Engineered Barrier*, due June 30, 2003
- M-016-27C, *In-Situ Redox Manipulation (ISRM) Barrier at the 200-D Area*, due June 30, 2003, was completed April 10, 2003, 2.5 months ahead of schedule

The Data Quality Objectives Summary Report outlining the proposed future groundwater monitoring networks for the 200-West and 200-East Areas was issued and support the M-024-000 milestone.

Issues discussed include 200 Area Remediation – disagreement between Ecology and RL on the timing for collecting ecological data to support remedial action decision making, and the technical approach to characterization of soil waste sites and pipelines in the U Plant Area. Discussions continue.

Presentation attached.

#### **Land Disposal Restriction Report, M-026-01**

Presented by: Mary Jarvis

Start: 9:55 a.m.

End: 10:00 a.m.

The CY 2002 LDR Report was approved by Ecology on July 13, 2003. Ecology provided six comments that will be resolved through the monthly Project Managers Meeting. No significant regulatory issues or actions requiring follow-up were identified; presentation attached.

#### **Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3 (M-091)**

Presented by: Mark French, RL

Start: 10:00 a.m.

End: 10:03 a.m.

Due to the continued litigation activities, no presentation material was available. The contractor is working to complete the readiness assessment in September and initiate retrieval in October 2003. The equipment is procured, training underway and the majority of the workforce in place. Approximately 34 shipments were sent to WIPP in the last four months; goal is to complete 8 shipments per month in FY 2004.

#### **Acquisition of Facilities Cs/Sr, Na, SCW (M-092-1/5)**

Presented by: Sen Moy, RL

Start: 10:04 a.m.

End: 10:15 a.m.

Tri-Party Agreement Milestone M-092-01, *Complete Commercial Disposition and/or Acquisition of New Facilities, Modification of Existing Facilities and/or Modification of Planned Facilities...*, due December 31, 2009, and Tri-Party Agreement Milestone M-092-05, *Inclusion of Hanford Site Cs/SR Treatment and/or Repackaging Parameters in DOE TWRS Phase II Request for Proposals (Treatment and/or Repackaging of All Remaining Cs/Sr)...*, due June 30, 2007, were statused.

No significant regulatory issues or actions requiring follow-up were identified; presentation attached.

## *Hanford Spent Nuclear Fuel Project*

### **TPA Milestone Status** ***Milestones Due Fiscal Year 2003***

<b>Number</b>	<b>Milestone Title</b>	<b>Due Date</b>	<b>Status/Comments</b>
M-34-12-T01	Complete construction of Sludge Water System (SWS) per section IIA of Construction Completion Document (i.e., completion of operational testing)	9/30/2002	Completed 3/4/2003
M-34-17	Initiate K East to K West fuel transfer	11/30/2002	Completed 11/25/2002
M-34-18A	Complete removal of 957 Metric Tons of Heavy Metal (MTHM) of Spent Nuclear Fuel (SNF) from the K West Basin	12/31/2002	Completed 1/7/2003
M-34-08	Initiate full scale K East Basin sludge removal	12/31/2002	Behind Schedule. Forecast to begin Contractor ORR the week of 7/21/2003 and initiate sludge removal in 8/2003
M-34-27-T01	Complete removal of 1252 MTHM of SNF from K West Basin	5/31/2003	Completed 5/28/2003



**TPA Milestone Status*****Milestones Due Fiscal Year 2004-2007***

Number	Milestone Title	Due Date	Status/Comments
M-34-28	Complete removal of 1,619 MTHM from the K West Basin	12/31/2003	Accelerated projected completion 10/2003
M-34-25-T01	Complete transfer of K East Basin SNF to K West Basin	5/31/2004	Accelerated projected completion 12/2003
M-34-18B	Complete removal of all K Basin SNF	7/31/2004	Accelerated projected completion 3/2004
M-34-10	Complete sludge removal from K Basins	8/31/2004	K East Basin sludge removal planned for completion by 8/31/2004. Possible changes for K West Basin sludge removal are under consideration due to the accelerated project schedule, and were submitted to DOE-RL 7/16/2004.
M-34-23	Start K East water removal	9/30/2004	Potential changes to milestones due to alternate deactivation strategy submitted to DOE-RL 6/30/2003
M-34-09-T01	Complete K Basins rack & canister removal	1/31/2005	Potential changes to milestones due to alternate deactivation strategy submitted to DOE-RL 6/30/2003
M-34-24	Complete K East Basin water removal	9/30/2005	* (see note below)
M-34-21-T01	Initiate full-scale K West Basin water removal	10/31/2005	* (see note below)
M-34-22	Complete K West Basin water removal	8/31/2006	* (see note below)
M-34-00A	Complete removal of K Basin fuel/sludge/debris/water	7/31/2007	* (see note below)

\* NOTE: Milestone may be completed early, if proposed deactivation plan is approved.





**ATTENDEES**  
**Central Plateau/Spent Nuclear Fuel**  
**Tri-Party Agreement Milestone Review**  
**July 22, 2003**

NAME	ORGANIZATION	MAILSTOP	ATTACHMENTS
ROB PIERRO	FH/TPA	A4-25	✓
Jim Murphy	FH/TPA	A4-25	
Larry Schallert	EPA	B5-01	✓
Michael Allen	Ecology		
LAUREN Cusack	Ecology		✓
DAVID LANGSTAFF	RL-OJO		
STEVE VEITENHEIMER	RL-SFO		
Carole Rodriguez	SFO	A4-79	
David Watson	FH SNFPA	X3-79	✓
LORI FRITZ	FH WML		
Melinda Brown	Ecology		X
A.G. Miskko	FH	N1-26	
Ellen Matthin	DOE-RL-RLA	A5-15	X
Bryan Foley	DOE-RL-ANCP	A6-38	<del>X</del>
Bob Bond	Ecology	B5-18	
Melinda [Signature]	FH PFP		X
Larry Romine	RL-ATN		
John Price	Ecology		
Kevin Leary	US DOE/RL		
Ron Jackson	FH	E6-35	
LORI FRITZ	FH WML		
DALE MCKENNEY	FH WMP		
Suzette Thompson	FH-EP		



**Central Plateau/Spent Nuclear Fuel  
Tri-Party Agreement Milestone Review  
July 22, 2003**

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# **Hanford Spent Nuclear Fuel Project**

## ***Tri-Party Agreement M-34 Milestone Review***



**Larry Earley**  
***U.S. Department of Energy,***  
***Richland Operations Office***

***July 22, 2003***

## *Hanford Spent Nuclear Fuel Project*

### **TPA Milestone Status** ***Milestones Due Fiscal Year 2003***

<b>Number</b>	<b>Milestone Title</b>	<b>Due Date</b>	<b>Status/Comments</b>
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M-34-09-T01	Complete K Basins rack & canister removal	1/31/2005	Potential changes to milestones due to alternate deactivation strategy submitted to DOE-RL 6/30/2003
M-34-24	Complete K East Basin water removal	9/30/2005	* (see note below)
M-34-21-T01	Initiate full-scale K West Basin water removal	10/31/2005	* (see note below)
M-34-22	Complete K West Basin water removal	8/31/2006	* (see note below)
M-34-00A	Complete removal of K Basin fuel/sludge/debris/water	7/31/2007	* (see note below)

\* NOTE: Milestone may be completed early, if proposed deactivation plan is approved.



## Significant Accomplishments and Status

- **Fuel Movement**

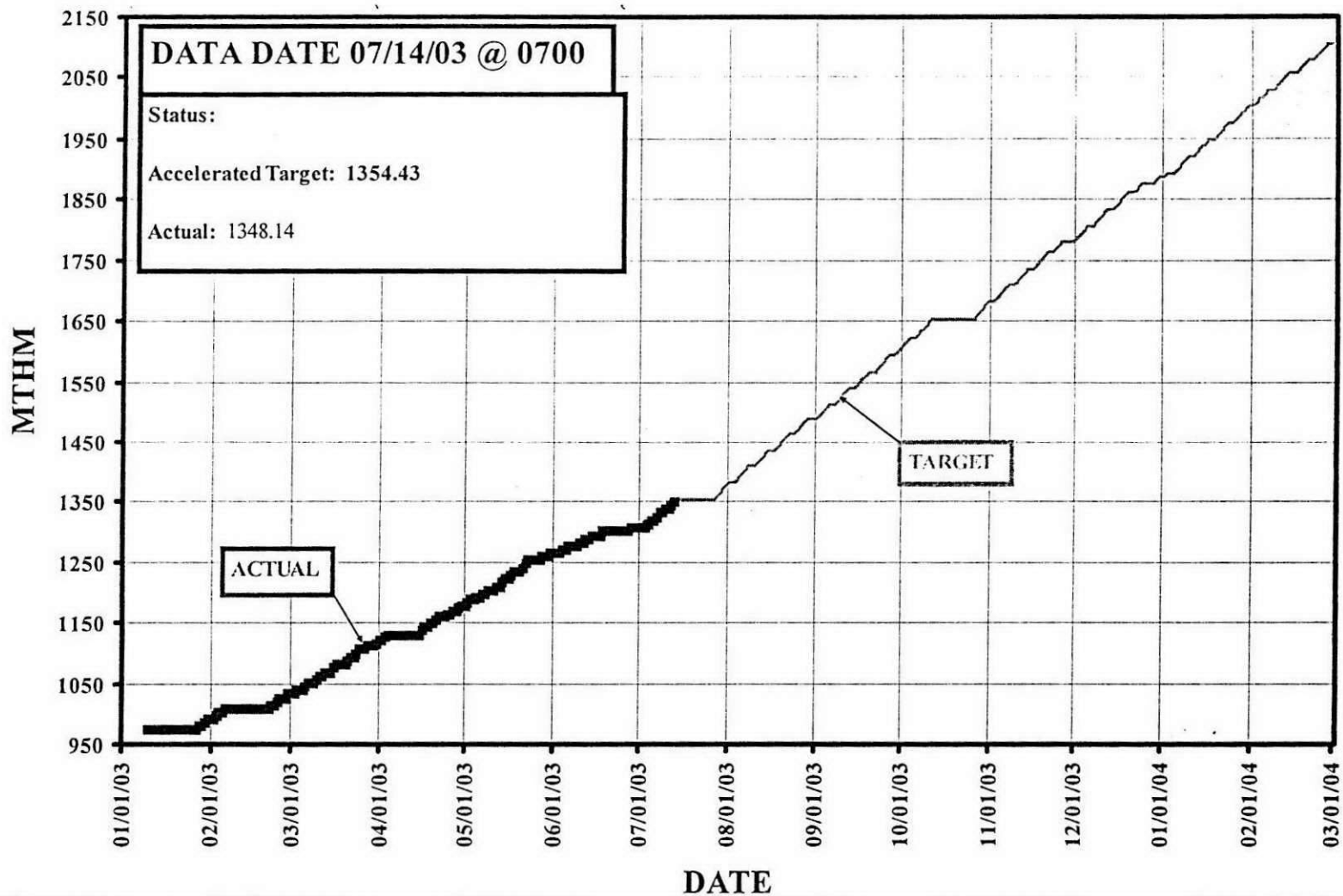
- Completed shipment of 218.98 MTHM (38 MCOs) from K West Basin to Cold Vacuum Drying Facility (CVDF) between April 14, 2003 and July 14, 2003. Cumulative total of 252 MCOs and 1,348.14 MTHM
  - **July 21, 2003 Update:** One additional MCO and 6 MTHM were shipped from K West to the CVDF; currently one MCO and .48 MTHM behind schedule
- Completed target fuel movement milestone to remove 1,252 MTHM SNF from K West Basin by May 31, 2003 (Target Milestone M-34-27-T01). Milestone completed May 28, 2003, three days early
- Project to complete the removal of 1,619 MTHM from the K West Basin ahead of schedule (Milestone M-34-28)
  - **Production Enhancements**
    - Management, transportation and maintenance personnel added to support 24/7 operations
    - Converted primary table to manual table (removed requirement for manipulators)
    - Installing strainers downstream of the knock-out pots the week of July 21, 2003
    - Improve operator tools; statement of work drafted and ready for procurement
    - Maintenance organization and staffing changes underway
    - Ready with repair packages for single-point failures





## Significant Accomplishments and Status (continued)

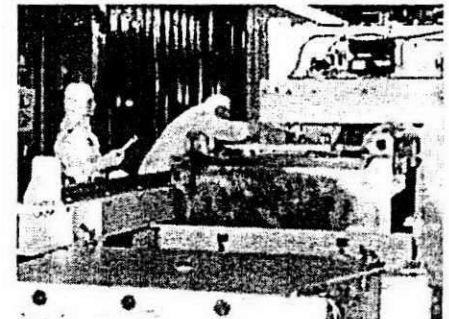
### ACCELERATED TARGET VERSUS ACTUAL MTHM PRODUCTION



## Significant Accomplishments and Status (continued)

- **Fuel Transfer System (FTS)**

- Current status and production during the period of April 14 – July 14, 2003
  - 62 FTS shipments (620 canisters) completed during reporting period
  - 149 FTS shipments (1,490 canisters) cumulatively completed
    - **July 21, 2003 Update:** Additional six shipments (sixty canisters) have been completed since reporting period; currently one shipment (ten canisters) ahead schedule
- FTS production enhancements
  - Commenced 24/7 schedule July 14, 2003
  - Completed improvement of cooling of FTS annexes and basins on schedule
  - Additional high pressure decontamination of FTS casks to be demonstrated the week of July 28, 2003
  - FTS jackscrew drives being replaced and monitored
  - Training additional NCOs is in progress



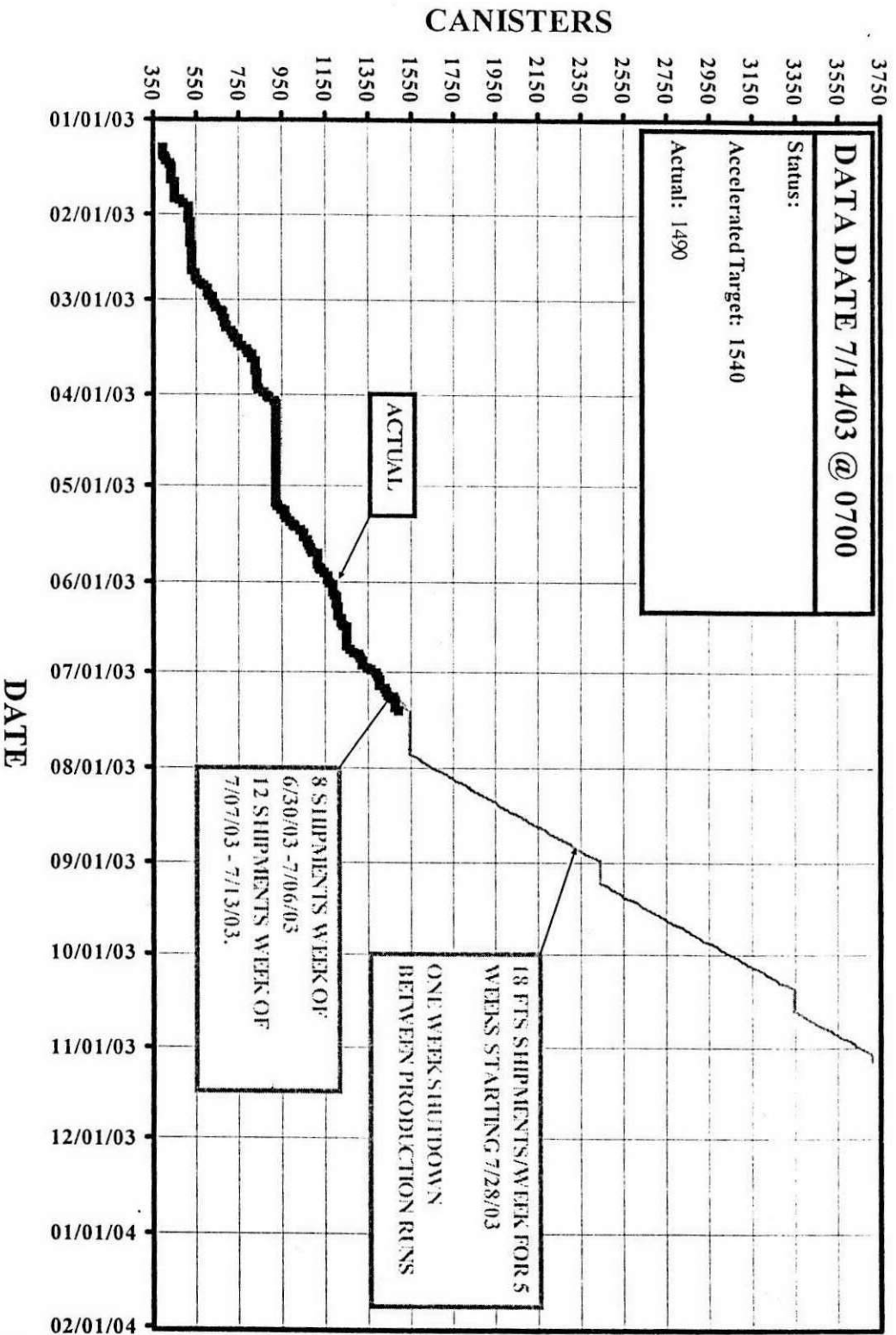
*First transport in K East Annex.*



*First transport leaves K East.*

# Significant Accomplishments and Status (continued)

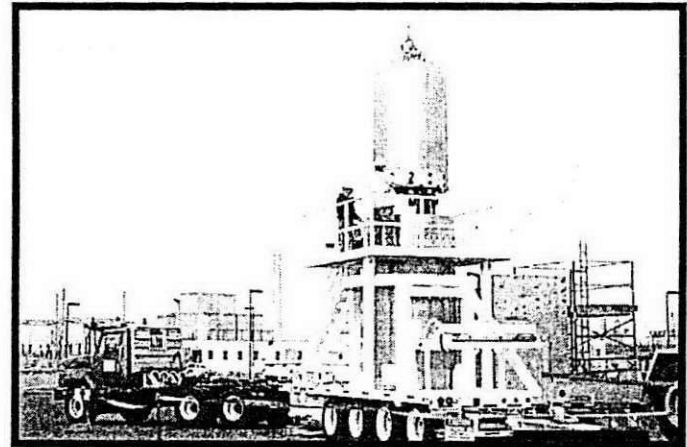
## ACCELERATED TARGET VERSUS ACTUAL FTS PRODUCTION



## Significant Accomplishments and Status (continued)

- **Sludge Water System (SWS) Startup**

- Declared pause of Contractor Operational Readiness Review (ORR)
- Corrective action plan being completed
- Target to resume Contractor ORR the week of July 21, 2003, and operations in August 2003
- Supports TPA completion date of August 2004



*Sludge Transportation System – Test loading large diameter container into casks at K Basins*

- **K West Basin Sludge Water System**

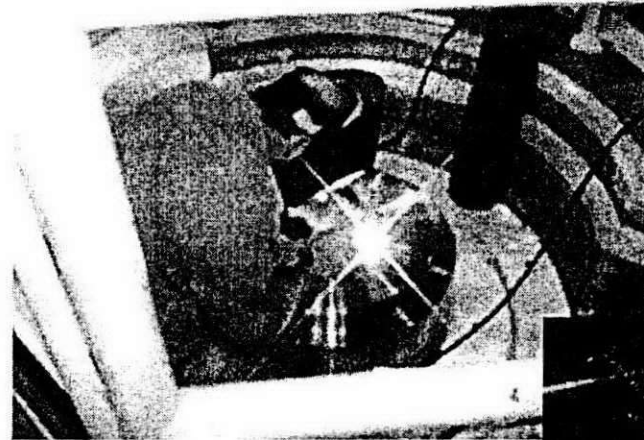
- Issued Request for Proposal (RFP) for the K West Sludge Retrieval and Storage System on June 30, 2003
  - Contract includes design, fabrication, and testing of systems to retrieve and package sludge from K West
  - 43 companies were notified
  - Bids due from prospective vendors on August 11, 2003



## Significant Accomplishments and Status (continued)

- **Canister Storage Building (CSB)**

- Current welding status and production during the period of April 14 – July 14, 2003:
  - 27 MCOs welded during reporting period
  - 52 MCOs welded cumulatively
    - **July 21, 2003 Update:**  
Additional three MCOs welded; three MCOs ahead of schedule



MCO Welding at the CSB



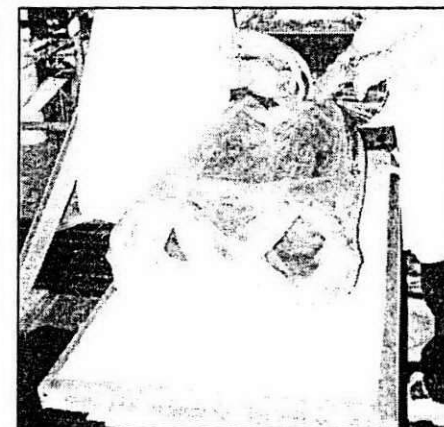
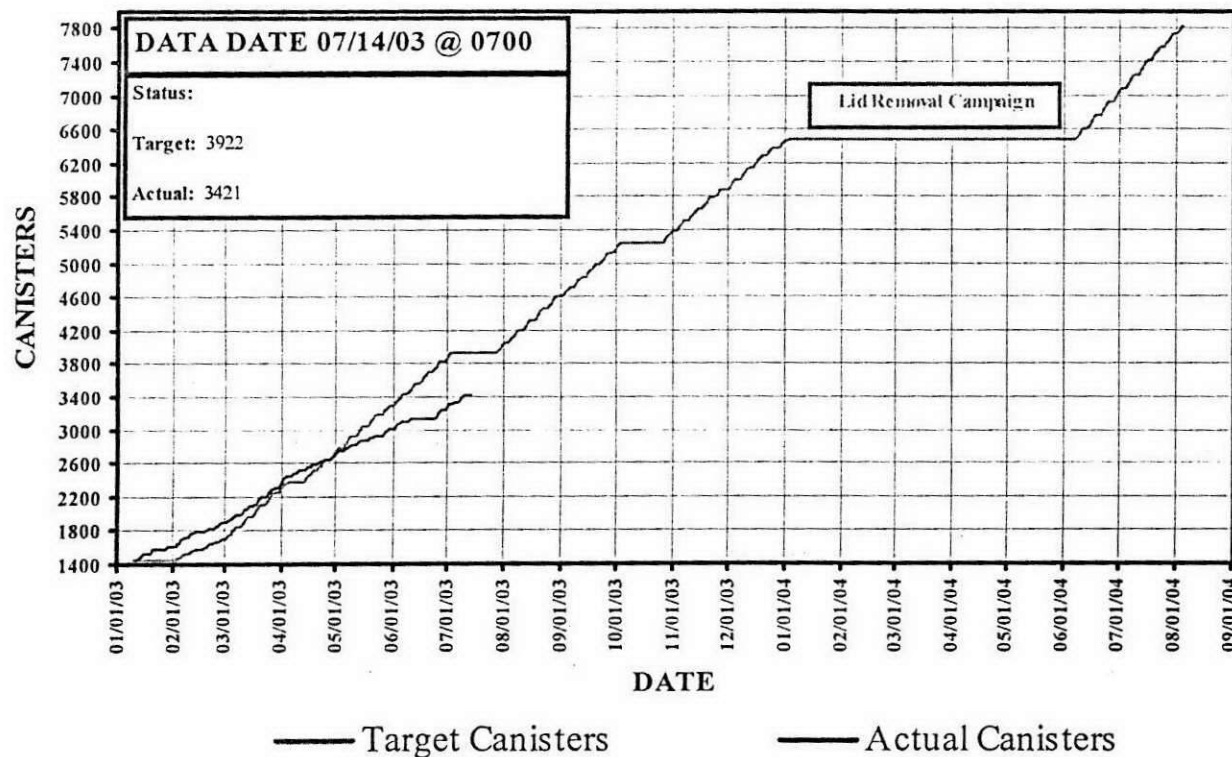
"N" Stamped MCO

- **K West Scrap Removal**

- RA successfully completed
- Washed one canister of scrap
  - Revised validation plan to incorporate results of the initial process validation run
  - Validation will resume after strainers are installed downstream of the knock-out pot (during July outage)

## Significant Accomplishments and Status (continued)

### EMPTY CANISTERS REMOVED FROM K WEST TARGET VERSUS ACTUAL



Above: Canisters are bagged out of the canister cleaning enclosure.

**Variance Analysis:** Action plans are being developed to bring this activity back on schedule. Shift metrics have been implemented to track canister cleaner performance on a shift basis.

## ***Significant Accomplishments and Status (continued)***

### **• Site-Wide Activities:**

- Continued readiness preparations to receive first 18 Interim Storage Casks (ISCs) from the Fast Flux Test Facility (FFTF). ISC receipt schedules revised to reflect FFTF deactivation. The first shipment is expected in mid-2004.
- Formal agreement reached between SNF, FFTF, and Plutonium Finishing Plant (PFP) on receipt and storage of Category I/II spent fuel at the CSB to support FFTF deactivation and PFP deinventory.
- Continued preparations for K Basins receipt of spent fuel discovered at D Reactor and H Reactor Basin.
- Shippingport Reactor Spent Fuel
  - One additional shipment was received from T-Plant
  - Eight of a total of 18 shipments received to date
  - Plan to complete the remaining ten shipments is as follows:
    - One shipment will be made during the October maintenance outage
    - Following fuel removal from the basins, casks and transporters will be dedicated to supporting the remaining nine Shippingport fuel shipments



## **Significant Accomplishments and Status (continued)**

- **Deactivation and Transition**

- The Alternative Deactivation Plan was developed and delivered to DOE-RL on June 30, 2003. The plan described three approaches:

- 1) Grout and Remove (Fluor Hanford's recommended approach)

- Accelerates the demolition of the K Basins six years earlier than currently shown in the TPA
- Uses Grout and Remove technique for D&D of basins
- Reduces potential for worker exposure
- \$10 million savings to SNF Project baseline and an additional \$10+ million savings to basins' life-cycle costs

- 2) Enhanced Baseline

- Accelerates deactivation of basins (cold/dark/dry) by 18 months and is based on manual underwater move/cut of racks and debris

- 3) Robotics

- Same as the Enhanced Baseline approach, except, uses automation to replace hands-on labor

- DOE-RL decision is forecasted by August 15, 2003





## ***Upcoming Activities***

### Fuel Movement

- Complete removal of 1,619 MTHM from the K West Basin November 2003 (Milestone M-34-08 date is December 31, 2003)

### K East SWS

- Start Contractor ORR in July 2003
- Start DOE ORR in August 2003
- Initiate full scale K East basin sludge removal in August 2003

### K West Basin Sludge Retrieval/Storage System

- Request For Proposal bid packages due August 11, 2003
- Complete "Recommended Process Option for K West Sludge," documenting the basis for preferred option selected for sludge waste streams

### K West Basin Scrap

- Resume validation after installation of strainers the week of July 21, 2003

### Deactivation and Transition

- Evaluate and provide Fluor Hanford response/approval of Deactivation Alternative Plan by August 15, 2003
- Based on DOE-RL's response to the Deactivation Proposal, remaining TPA milestones will be reviewed for possible restructuring to align with the accelerated deactivation planning in September 2003



## SNF Project Issues/Concerns

**Issue:** Timeline for Environmental Protection Agency (EPA) review and approval of the Application for Risk-Based Disposal Approval for Polychlorinated Biphenyls (PCB) at 200 Area Liquid Waste Processing Facilities uncertain. It is uncertain if the project will have to make budgetary allowances to provide for PCB treatment of K East Basin water as part of the scope and cost for deactivation.

**Status:** Timely EPA review and approval still requested. If PCB pre-treatment was required at K-Basins, potential alternatives are being investigated.

**Issue:** Recent contract changes identified to accelerate cleanup of the K Basins will likely require changes to one TPA milestone and potentially accelerate target dates on four other milestones.

**Status:** Alternative Deactivation Plan developed and delivered to DOE-RL on June 30, 2003. DOE-RL decision requested by August 15, 2003.



## ***Permitting and Regulatory Issues***

See issues and concerns

### ***Non-TPA Regulatory Issues with Potential to Impact SNF Project TPA Milestones***

**Issue:** Washington State Department of Health inspection and acceptance of T-Plant stack as a "major stack" is required prior to receipt of the K Basin Sludge. It is assumed that issues related to T-Plant air permit approval conditions will be resolved prior to sludge removal.

**Status:** Complete. T Plant received authorization by the Department of Health in May 2003 to use their stack; currently the stack is still functioning as a "minor stack" but will become a "major stack" upon receipt of K Basins sludge.



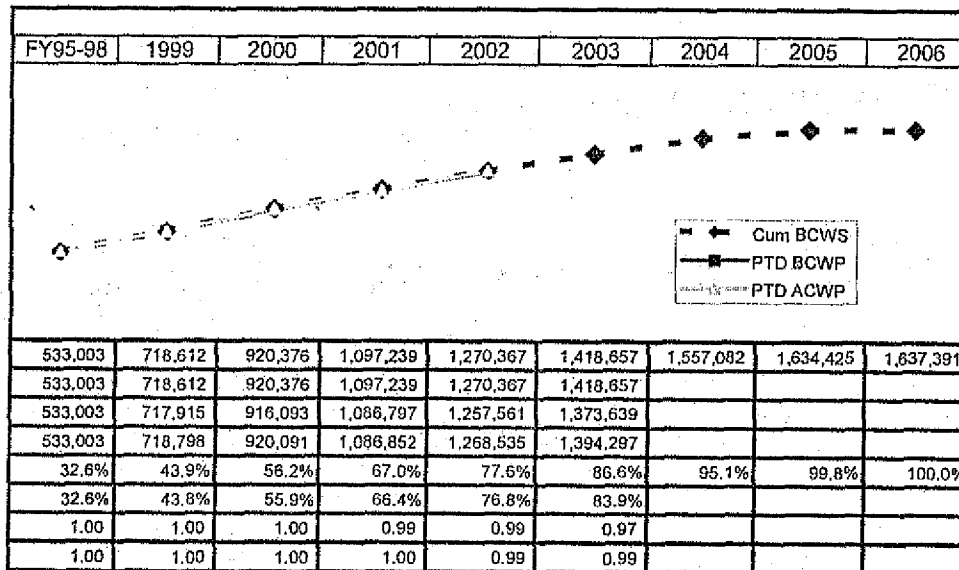
# Performance Measurement Terminology

- **BCWS (Budgeted Cost of Work Scheduled)**
  - BCWS represents the baseline budget for a scope of work over time. BCWS is normally combined with a term such as "Current Period" or "Fiscal Year to Date (FYTD)" to identify the time period the BCWS is associated with. BCWS is created by spreading the baseline cost estimate for a scope of work across its schedule activity duration based on the expected monthly level of activity. BCWS is the basis for the funding requested to perform a scope of work and is maintained through a documented change control process
- **BCWP (Budgeted Cost of Work Performed)**
  - BCWP represents the value of the work actually accomplished during a period based upon its budgeted value or BCWS. BCWP is a measure of the value of work based upon the physical work reported complete per the baseline schedule status update
- **ACWP (Actual Cost of Work Performed)**
  - ACWP represents the actual costs incurred to perform the work that was completed during a period and recorded as BCWP. For any particular period, ACWP includes accruals for costs not invoiced or booked associated with work that was performed during the period
- **SCHEDULE VARIANCE (SV)**
  - SV represents the difference between the work actually accomplished and the work planned or scheduled during any particular time period. ( $SV = BCWP - BCWS$ ) A positive SV reflects an ahead of schedule situation while a negative SV reflects that work is behind the scheduled plan
- **COST VARIANCE (CV)**
  - CV represents the difference between the budgeted value of the work actually accomplished and the actual costs incurred to perform the work. ( $CV = BCWP - ACWP$ ) A positive CV reflects the work being accomplished for less than its budgeted value and a negative CV reflects the work costing more to complete than planned
- **BAC (Budget at Completion)**
  - BAC represents the total baseline budget for a scope of work associated with either a fiscal year or life cycle. BAC is the summary of all monthly BCWS values for a scope of work within the fiscal year or life cycle. On a fiscal year end report the FYTD BCWS will equal the FY BAC



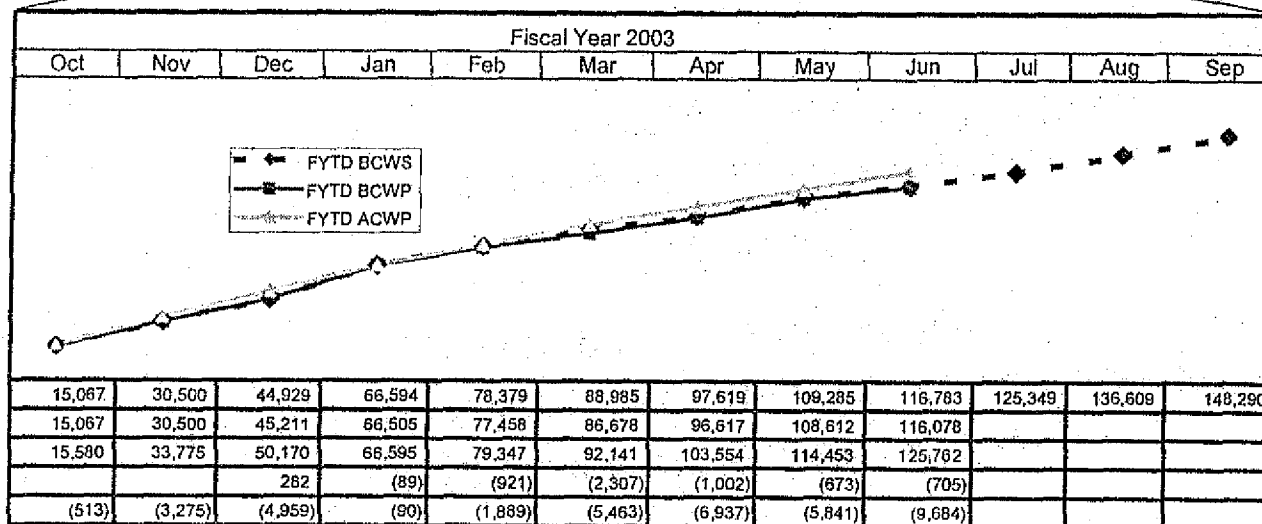
# Hanford Spent Nuclear Fuel Project

## SNF Project - Total Project Baseline



Life Cycle	
*BAC=	1,637,391
EAC=	1,637,391
BCWS=	1,418,657
BCWP=	1,373,639
ACWP=	1,394,297
SV=	(45,018)
CV=	(20,659)

\* Current BAC reflects a 10-month acceleration to the TPA completion date.



**Spent Nuclear Fuel Project**  
**Project Performance thru Third Quarter FY 03**  
*(based on early start schedule)*

(\$ in thousands)

**Schedule / Cost Performance**  
**Fiscal Year-to-Date Status (\$000s)**

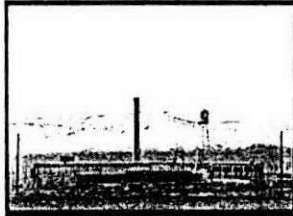
By PBS		<u>FYTD</u> <u>ACWP</u>
PBS RS03 WBS 3.2.3.1	SNF Project, 100K Basins	\$ 91,444
PBS RS03 WBS 3.2.3.2	Canister Storage Building (to 2004)	\$ 10,921
PBS RS03 WBS 3.2.3.3	200 Interim Storage Area (to 2004)	\$ 650
PBS RS03 WBS 3.2.3.4	SNF Project Management Support	\$ 22,747
<b>TOTAL</b>		<hr/> \$ 125,762



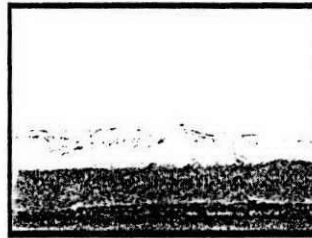


## Plutonium Finishing Plant

### Plutonium Finishing Plant Stabilization Project



Milestone  
TPA-M-83



July 22, 2003  
Tri-Party Agreement Milestone  
Status Report

Ecology Project Manager - R. Bond  
DOE-RL Program Manager - L. D. Romine  
FH Project Manager - G. W. Jackson  
FH Environmental - A. M. Hopkins

## Plutonium Finishing Plant

### M-83 Status for Interim Milestones Through 2006 (as of 06/30/03)

TPA No.	TPA Commitment Date	Milestone Title	Status
M-083-21	12/31/02	SUBMIT PFP RESIDUAL CHEMICAL HAZARDS ASSESSMENT	Complete 12/27/02
M-083-30	7/31/03	SUBMIT 241-Z WASTE TSD AND GLOVEBOX HA-20MB CLOSURE PLANS	On Schedule
M-083-20	9/30/03	SUBMIT FACILITY TRANSITION END POINT CRITERIA DOCUMENT	On Schedule
M-083-12-T01	12/31/03	SUBMIT PFP LEGACY PU HOLDUP REMOVAL PLAN TO ECOLOGY	On Schedule
M-083-13	4/30/04	COMPLETE REPACKAGING OF PFP MIXED WASTE RESIDUES & SHIP TO CWC	On Schedule
M-083-31	6/30/05	DISCONTINUE WASTE DISCHARGES FROM THE 241-Z TANKS TO TANK FARMS	On Schedule
M-083-14	9/30/06	COMPLETE 100% OF THE LEGACY PU HOLDUP REMOVAL	On Schedule
M-083-40	9/30/06	COMPLETE TRANSITION AND DISMANTLEMENT OF 232-Z BLDG INCINERATOR	On Schedule

### PFP Pu Stabilization Scoreboard (DNFSB Status)

% Stabilized / Made Disposition Ready as of June 30, 2003

	1/31/03	3/31/03	6/30/03
Solutions (by Pu Weight) -----	100%	100%	100%
Metals -----	100%	100%	* 100%
Alloys -----	100%	100%	100%
Oxides -----	13%	20%	35%
Polycubes -----	58%	100%	100%
Residues -----	89%	95%	95%
3013 Packaging -----	48%	53%	64%

\* The outer cans will be either re-canned or radiographed

## Plutonium Finishing Plant

### Major Accomplishments

#### Metals, Alloys, Oxides

- ◆ As of June 22, 2003, approximately 1,500 oxide items were stabilized in FY 2003 to-date (36 items ahead of schedule).
- ◆ High Chloride Oxide Stabilization Activities: Low Temperature Stabilization was initiated on June 18th, 2003.

#### Residues

- ◆ Repackaging of the combustibles, miscellaneous, compounds, and reduction residues were completed on May 30, 2003; and Group 2 alloys on July 3
- ◆ WIPP recertification audit in June - reviewed visual examination technique, NDA (SGSAS and calorimetry), and solid sampling at PFP. No Corrective Action Reports. Two recommendations issued on PFP.

#### Outer Can Packaging:

- ◆ This fiscal year 688 3013 containers have been produced, 26 containers ahead of the FY 2003 production baseline.

## **Plutonium Finishing Plant**

### **Major Accomplishments (continued)**

#### **Disposition of Nuclear Material**

- ◆ One hundred four 9975 containers and equipment for 4 loading stations were received from Rocky Flats Environmental Technology Site

#### **Decontamination & Decommissioning**

- ◆ Submitted 232-Z EE/CA to Ecology/EPA on July 1.
- ◆ Initiated sweeping of 234-5Z Glovebox HA-9B
- ◆ The PFP End Point Criteria document was submitted to DOE-RL on June 27th
- ◆ Submitted 241-Z and Glovebox HA-20MB closure plans to RL for forwarding to Ecology (M-83-30) due July 31<sup>st</sup>
- ◆ The PFP Closure Project was the focus of the cover story in the May/June issue of the Radwaste Solutions magazine, published by the American Nuclear Society.

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0003: LAMIT: clb

## **Plutonium Finishing Plant**

### **Planned Accomplishments**

- ◆ Complete M-83-30, Submittal of 241-Z/Glovebox HA-20MB closure plans – before July 31
- ◆ Startup 232-Z Glovebox/Process Equipment Removal – October
- ◆ Complete DNFSB Milestone for Packaging Residues – July/early August
- ◆ Complete Legacy Holdup Removal in Glovebox HC-7C
- ◆ Initiate Legacy Holdup Removal in MT-5 & 6
- ◆ RL review and approval of the Legacy Holdup Removal Plan (TPA milestone M-083-12-T01)
- ◆ Submit Endpoint Criteria to Ecology – due September 2003
- ◆ Resolution of Comments on Environmental Assessment (comments from Ecology and ODOE)

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0003: LAMIT: clb

## Plutonium Finishing Plant

### Schedule / Cost Performance

Fiscal Year to Date Status (\$000s)

CP03 3.3.3	Plutonium Finishing Plant	BCWS	BCWP	ACWP	Sched. Variance \$	Sched. Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
		\$75,568	\$71,935	\$73,583	-\$3,633	-4.8%	-\$1,648	-2.3%	\$107,622

#### Schedule Variance Analysis (-\$3.6M):

Status through June 2003 month end

- Delay in procurement/receipt of pipe overpack containers and 9975
- Re-sequence of residues completion - early completion of remaining residues delaying baseline work on low assay MOX
- Delay in start of 2736-ZB vault complex DSA
- Delay in procurement of lab/NDA equipment for D&D
- Late start on Pu removal in PRF due to filter replacement

#### Cost Variance Analysis (-\$1.6M):

- Increased Project Mgmt costs (dosimetry, medical, subcontract support)
- Increased labor costs associated with stabilization of chlorides/oxides
- Partially offset by underruns in D&D and waste disposal

- Note: no impact to milestones

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6403 : LAMIT : clb

## Plutonium Finishing Plant

### Potential Issues/Requests for Assistance

#### ◆ Regulatory Issue:

- 232-Z EE/CA -- Ecology/EPA to discuss waste certification issue

#### ◆ Non-Regulatory Issues:

- Decision on Consolidation of Nuclear Material at SRS
- SRS Material Acceptance Criteria

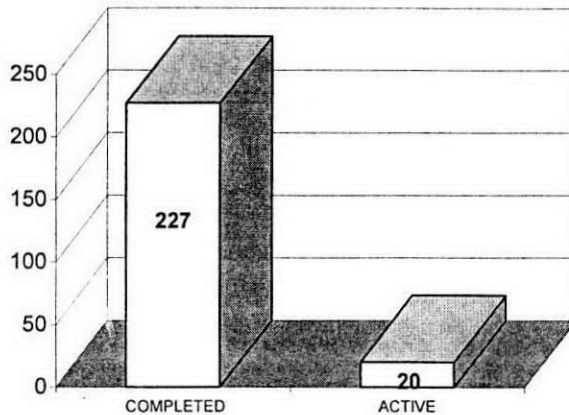
8

6403 : LAMIT : clb

# **CENTRAL PLATEAU GROUNDWATER PROTECTION PROGRAM**

# CENTRAL PLATEAU PROJECT - GROUNDWATER PROTECTION PROGRAM

## Central Plateau-Groundwater Protection Program TPA Milestone Statistics (Major & Interim Milestones)



	Compliance Due Date	Total Active @ 06/2003 *	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
<b>M-13-00</b> Submit Work Plans for RFI/CMS or RI/FS Studies	12/31/04 (M-13-00O)	2	M-13-00M(C) M-13-00N M-13-00O	12/31/02 12/31/03 12/31/04		
<b>M-15-00</b> Site Investigations / Feasibility Studies	12/31/08 (M-15-00)	9	M-15-41B(C) M-15-38A(C) M-15-40B(C) M-15-47(C) M-15-39A M-15-41C M-15-39B M-15-43B M-15-40C M-15-39C M-15-43C M-15-00C M-15-00	10/30/02 03/31/03 05/31/03 06/30/03 09/30/03 03/31/04 05/31/04 06/30/04 10/31/04 11/30/05 12/31/05 12/31/08 12/31/08		
<b>M-16-00</b> Remedial Design / Remedial Action	9/30/24 (M-16-00)	1	M-16-28A(C) M-16-27C(C) M-16-00	03/31/03 06/30/03 09/30/24		
<b>M-20-00</b> Submit Closure Plans for All RCRA TSD Units	12/31/08 (M-20-00B) (Shared with FH)	4	M-20-39 M-20-33 M-20-54 M-20-00B	11/30/05 12/31/05 12/31/08 12/31/08		
<b>M-24-00</b> RCRA Groundwater Monitoring	Annually	4	M-24-56(C) M-24-00N(C) M-24-00O M-24-00P M-24-00Q M-24-00R	12/31/02 12/31/02 12/31/03 12/31/04 12/31/05 12/31/06		
9 --- MILESTONES COMPLETED IN FY03 (C)						

**TOTAL ACTIVE MILESTONES**

**20**

\* Includes TPA changes requests approved thru June 30, 2003.



## Richland Environmental Restoration Project

## TPA MILESTONE SUMMARY SCHEDULE -- CENTRAL PLATEAU

OPERABLE UNIT	Fiscal 2002				Fiscal 2003				Fiscal 2004				Fiscal 2005				Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010				Fiscal 2011				Fiscal 2012				Fiscal 2013			
	BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
<b>200 AREA REMEDIAL ACTION</b>																																																
<b>200 AREA WORK PLANS</b>																																																
<b>200 AREA ASSESSMENTS</b>																																																
<b>200-CW-1</b>																																																
<b>200-CW-5</b>																																																
<b>200-CS-1</b>																																																
<b>200-TW-1 / 200-TW-2</b>																																																
<b>200-PW-2</b>																																																
<b>200 AREA COMMON</b>																																																
<b>200 AREA CLOSURE PLANS</b>																																																
<b>200-CS-1</b>																																																
<b>200-PW-2</b>																																																
<b>200-IS-1</b>																																																

TPA MILESTONE 
 TPA MAJOR MILESTONE 
 TARGET MILESTONE 
 FORECAST 
 COMPLETE 
 UNRECOVERABLE 
 'AT RISK' 
 (P) PENDING CHANGE REQUEST 
 RCRA PERMIT COMMITMENT

M-16-00 - 9/30/2024 - Complete Remedial Actions for All Non-Tank Farm Operable Units

# CENTRAL PLATEAU PROJECT – GROUNDWATER PROTECTION PROGRAM

## CENTRAL PLATEAU – GROUNDWATER PROTECTION PROJECT FY 2003 TPA MILESTONE SUMMARY (Major & Interim Milestones)

Status as of: June 30, 2003

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast		
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule
CP01	M-015-41B	Submit 200-TW-1 & TW-2 OU RI Report, including Past Practice Waste Sites in 200-PW-5 Fission Product-Rich Process Waste Group	10/30/02	10/23/02	X				
CP01	M-013-00M	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for the 200-IS-1 Tanks/Lines/Pits/Diversion Boxes OU	12/31/02	12/30/02	X				
SS03	M-024-00N	Install RCRA Groundwater Wells at the Rate of 50 per Calendar Year	12/31/02	12/18/02	X				
SS03	M-024-56	Install Two Additional Wells at SST Waste Management Area TX-TY	12/31/02	12/18/02	X				
SS03	M-016-28A	Connect Well 199-K-126 to the 100-KR-4 Pump & Treat Extraction System	01/15/03	01/13/03	X				
CP01	M-015-38A	Submit 200-CW-1 Gable Mountain Pond/B Pond & Ditches Waste Site OU, 200-CW-3 North Area Cooling Water Waste Group OU, & 200 North Area Waste Sites FS/PP	03/31/03	03/31/03		X			
CP01	M-015-40B	Submit 200-CW-5 U Pond/Z Ditches Cooling Water RI Report, Including Past Practice Waste Sites in the 200-CW-2 S Ponds/Ditches Cooling Water Group, the 200-CW-4 T Ponds/Ditches Cooling Water Group, and the 200-SC-1 Steam Condensate Group	05/31/03	05/31/03		X			
CP01	M-015-47	Submit a Proposed Plan to Conduct Remedial Action(s) for Source Control at High Risk Waste Site(s) Which Includes a Engineering Evaluation of an Engineered Barrier	06/30/03	06/30/03		X			
SS03	M-106-27C	Complete 100-HR-3 Phase III ISRM Barrier Emplacement Planning, Well Installation, and Barrier Emplacement	06/30/03	04/10/03	X				
CP01	M-015-39A	Complete Chemical Sewer Group Field Work Through Sample Collection and Analysis	09/30/03	09/30/03			X		

## ACCOMPLISHMENTS

### 200 Area Remediation

One Tri-Party Agreement (TPA) Milestone was met (M-015-38A) in May with the delivery of the regulator review draft of the Remedial Investigation Report for the 200-CW-5, 200 CW-2, and the 200-CW-4 Ponds and Ditches Cooling Water Operable Units.

In June, the M-015-47 TPA Milestone was met with the delivery of the U Plant Area Waste Sites Focused Feasibility Study and Proposed Plan.

A Central Plateau Ecological data quality objectives (DQO) process is in the planning stage and will be initiated in July. Meanwhile, comments from the regulators, various stakeholders, and Tribal representatives have been received on the Central Plateau Ecological Evaluation Report. The document presents a screening-level ecological risk assessment for the entire Central Plateau area that complies with EPA guidance. The document will be revised in parallel with the Ecological DQO.

Comments were also received on the 200-CW-1/200-CW-3 and 200 North Feasibility Study and Proposed Plan. The Tri-Parties have held resolution meetings and the document is in revision.

The 200-CS-1 (Chemical Sewers Operable Unit) waste site field investigation was completed in April and the 200-PW-2/200-PW-4 Uranium-rich Process Waste Operable Units was initiated.

Several other TPA documents, including Remedial Investigation Reports, Feasibility Studies, Closure Plans, Proposed Plans, and Proposed Permit Modifications, are in various stages of review/completion.

### Groundwater Remediation

The Data Quality Objectives Summary Report that outlines the proposed future groundwater monitoring networks for the 200-West and 200-East Areas has been issued. The title of this report is *Data Quality Objectives Summary Report for Establishing a RCRA/CERCLA/AEA Integrated 200 West and 200 East Area Groundwater Monitoring Network*, CP-15329 Revision 0, March 2003.

The three 100 Area pump and treat systems (100-KR-4, 100-NR-2 and 100-HR-3), and the two Central Plateau groundwater pump and treat systems (200-UP-1, 200-ZP-1) continued to operate above 90 % availability throughout the third quarter.

Spring startup of the 200-PW-1 active soil vapor extraction system occurred on schedule on April 1, 2003.

Preparations took place for the drilling of 6 monitoring wells for ORP. These wells will be included under the M-024-000 milestone. In addition, two wells were completed in the 100-H Area for PNNL as part of the Natural Accelerated Bioremediation Research (NABIR) Project.



The In Situ Redox Manipulation (ISRM) barrier at the 100-D Area was completed this quarter (M-016-27C) 2.5 months ahead of the TPA due date. In addition, the associated Explanation of Significant Difference was finalized. This barrier is the remedial action selected in the amendment to the 100-HR-3/KR-4 Record of Decision. The barrier is now 2,231 ft (680 m).

Bids were solicited to decommission wells in the vicinity of U-Plant. The anticipated contract award date is the end of July, with completion by October 31, 2003. A second solicitation is being prepared to decommission unused piezometer wells in the Central Plateau.

### Groundwater/Vadose Zone Integration

In May, a management plan was issued that focused on remediating high-risk waste sites, reducing contaminated areas, reducing recharge, remediating groundwater, and performing monitoring for long-term stewardship. The planning document, *Hanford's Groundwater Management Plan*:

*Accelerated Cleanup and Protection (DOE/RL-2002-68)*, was officially approved by the U.S. Department of Energy (USDOE) and placed on the Groundwater Protection Program (GPP) internet website at <http://www.hanford.gov/cp/gpp/>. The document and its summary schedules will be updated on a regular basis.

The *Groundwater Protection Program FY 2002 Progress Report* was printed in June. The report comprises in layman's terms how the program was formed, a summary of 2002 accomplishments, and short and long-term future plans. Accessible on the GPP Internet website, the report is also available in hard copy form, upon request. The *100 Area Pump and Treat Annual Summary Report for 2002* and the *In-Situ Redox Manipulation Annual Summary Report for 2002* were also issued during this reporting period and added to the GPP Internet website.

A new user-friendly Hanford Environmental Information System (HEIS) database tool was added to the GPP Internet website in June. HEIS contains chemical monitoring statistics dating back to about 1950. There are more than 600 chemicals in the HEIS database, for a total of approximately 2.5 million records from over 1700 water-quality monitoring wells.

A 618-10 and 618-11 Burial Ground remedial design technology workshop for more than 140 Hanford and non-Hanford participants was held June 9-12 in Richland, Washington. Attendees collectively voiced the need for more specific waste site characterization information, as a means to finalize remedial design.

Program plans and strategies were presented at Open Meetings in April, May and June. Updates were also provided to the Hanford Advisory Board River and Plateau Committee at their April meeting.

In April and May, a presentation was made to the Confederated Tribes of the Umatilla Indian Reservation and the Yakama Nation on enhancements to the System Assessment Capability tool and the results of an initial assessment completed in September 2002.

In continuing efforts to better communicate and obtain feedback on Hanford Site risk assessment activity to the public and stakeholders, discussions were held regarding tribal interests on the direction of future assessments.

Assessments performed with the tool help decision-makers evaluate cumulative effects of contamination at Hanford. The initial assessment modeled the movement of contaminants from 890 Hanford waste sites and incorporated data for ten radioactive and chemical contaminants, as well as other information. The results predicted that risks to human health and the environment from the contaminants modeled is greater today than it will be at any time in the next 1,000 years. Future demonstrations of other system wide tools were requested by the Yakama Nation as a result of the presentation.

### ISSUES

#### 200 Area Remediation Issue Status

**Issue** — The April 2003 TPA Quarterly Review reported on the disagreement between Ecology and USDOE about the timing for collecting ecological data to support remedial action decision making. The issue was discussed at the IAMIT on the same date, and it was decided to have a follow-up meeting on May 12, 2003 to identify a path forward.

**Status** — USDOE issued a Draft B *Central Plateau Ecological Assessment Report*, received review comments, and is revising the document in response to comments. The Report identified several data gaps. In July the Parties kicked off a DQO process that will address those data gaps, as well as other issues identified during DQO interviews. Ecology and EPA are planning to provide conditional approval of RI/FS documents, with the condition that additional remedial investigation sampling may be required as a result of the DQO process.

#### U Plant Soil Waste Sites Issue Status

**Issue** — Ecology and USDOE disagree on technical approach to characterization of soil waste sites and pipelines in the U Plant area. The characterization supports the U Plant area closure. USDOE is proposing to rely on the analogous sites approach for unplanned releases and pipelines. Ecology made prior comments that the analogous sites approach is not relevant for unplanned releases and pipelines. Ecology also proposes that for unplanned releases that are limited in areal extent, it should be cheaper to plan one mobilization and characterize using the observational approach during excavation/cleanup. USDOE proposes to use process knowledge for pipelines characterization;

Ecology previously identified 4 specific alternatives for pipelines characterization and remediation.

**Status**-The issues will be discussed during a July data quality objectives (DQO) process.

### **200-UR-1 RI/FS Work Plan Issue Status**

**Issue**-USDOE initiated work on the 200-UR-1 (unplanned releases) operable unit RI/FS work plan, to meet the M-013-00N milestone (due 12/31/2003). Ecology proposes that for unplanned releases that are limited in areal extent, it should be cheaper to plan one mobilization and characterize using the observational approach during excavation/cleanup. A bias for action should allow going from 5 primary documents to 2 primary documents, with consequent cost savings.

**Status**-The issues will be discussed during a July data quality objectives (DQO) process. Ecology supports the accelerated sampling and hot spot removal in the BC Control Zone.

**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
July 22, 2003**

- Program Manager Meetings (PMMs) continue to resolve outstanding actions outlined in the March 14, 2002, Resolution Agreement
- The PMM's are also used to address issues or concerns identified during the conduct of workscope or outyear activities
- Open actions and/or remaining issues are statused during the PMM's
  - Six of the seven actions identified in the March 14, 2002, Resolution Agreement are complete. Discussions continue on the remaining action (consolidation of requirements documents)
  - Work continues on actions agreed to in the PMM's

**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
July 22, 2003**

Actions Planned for Next Six Months

- DOE and Ecology will continue PMM's focusing on requirements consolidation and PMM commitments/actions



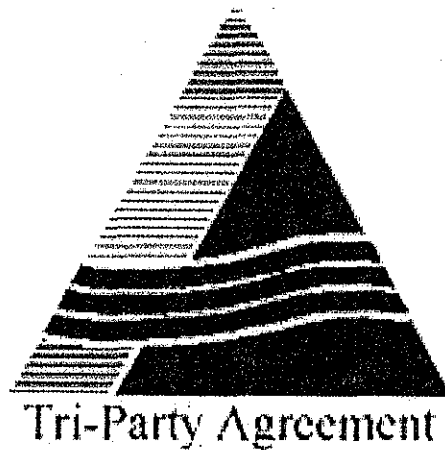
**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
Quarterly Presentation  
July 22, 2003**

**M. F. Jarvis  
RL Regulatory Compliance and Analysis Division  
G. L. Sinton  
RL Waste Management Division**

**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
July 22, 2003**

- Tri-Party Agreement requires that a Hanford Site Land Disposal Restrictions (LDR) Report be submitted annually
  - LDR Report is designated as a primary document in accordance with the Tri-Party Agreement
- The CY 2002 LDR Report (M-026-01M) was submitted to Ecology on April 28, 2003
  - Ecology approved the CY 2002 LDR Report on July 13, 2003
  - Project Manager's Meetings will be used to address Ecology comments

# Cs/Sr Capsule Dry Storage Project **TPA Quarterly Review**



U.S. Department of Energy  
U.S. Environmental Protection Agency  
Washington State Department of Ecology

**July 22, 2003**



# **Cs/Sr Capsule Dry Storage Project**

## **Table of Contents**

- **Milestone Summary**
- **Schedule**
- **M-92-01 Accomplishments**
- **M-92-05 Status**
- **6-Month Look-Ahead**
- **FY03 Performance Summary**
- **TPA and Non-TPA Regulatory Issues**

# **Cs/Sr Capsule Dry Storage Project**

## **Milestone Summary**

**M-92-01**

**Due Date: December 31, 2009**

- **Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities and/or modification of planned facilities necessary for site wide consolidation, and storage prior to commercial use, or treatment and/or repackaging by DOE TWRS.**

# **Cs/Sr Capsule Dry Storage Project**

## **Milestone Summary**

**M-92-01 (continued) Due Date: December 31, 2009**

- **Completion of this milestone requires completion of commercial disposition and/or all construction, internal/external facility(s) modifications, and startup activities necessary for the treatment/processing, repackaging (if necessary), and storage of Cs/Sr (to include unencapsulated salts) located at the: (1) "ARECO Facility in Lynchberg, VA (25 capsules), (2) Hanford 300 Area (13 capsules at the 327 Pool Facility and excess Cs/Sr salts at the 324 Facility), and (3) Hanford Waste Encapsulation and Storage Facility in the 200 East Area.**



# **Cs/Sr Capsule Dry Storage Project**

## **Milestone Summary**

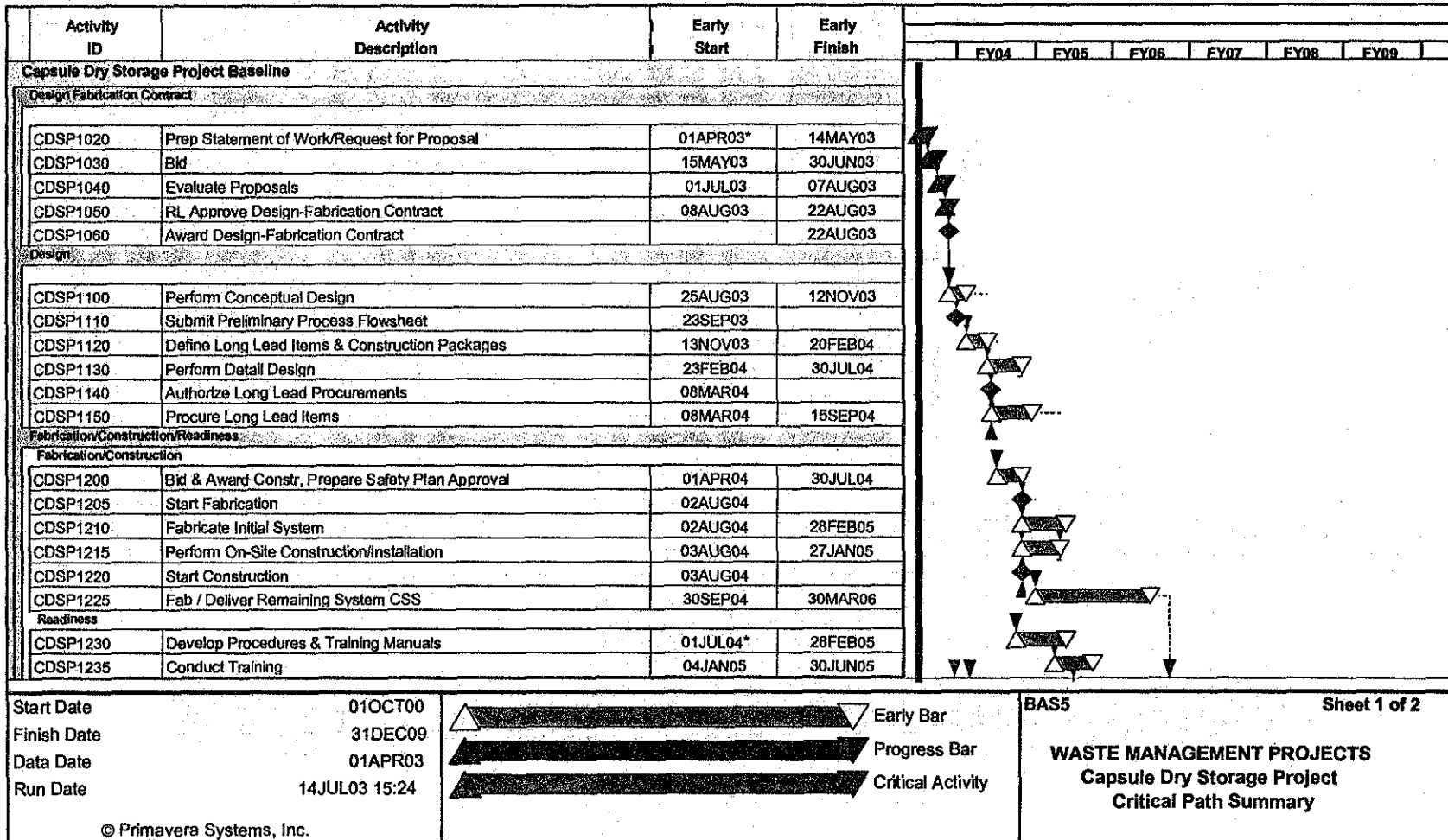
**M-92-05**

**Due Date: June 30, 2007**

- **DOE will assess the viability of directly disposing of Hanford Cs/Sr capsules at the National High-Level Waste Repository. Based on this assessment, if DOE concludes that direct disposal is a viable and preferred alternative to vitrification, DOE will submit to Ecology specific documentation justifying its conclusion, with a proposed milestone Change Request establishing enforceable Agreement milestones for dispositioning Hanford Cs/Sr capsules by 2028.**

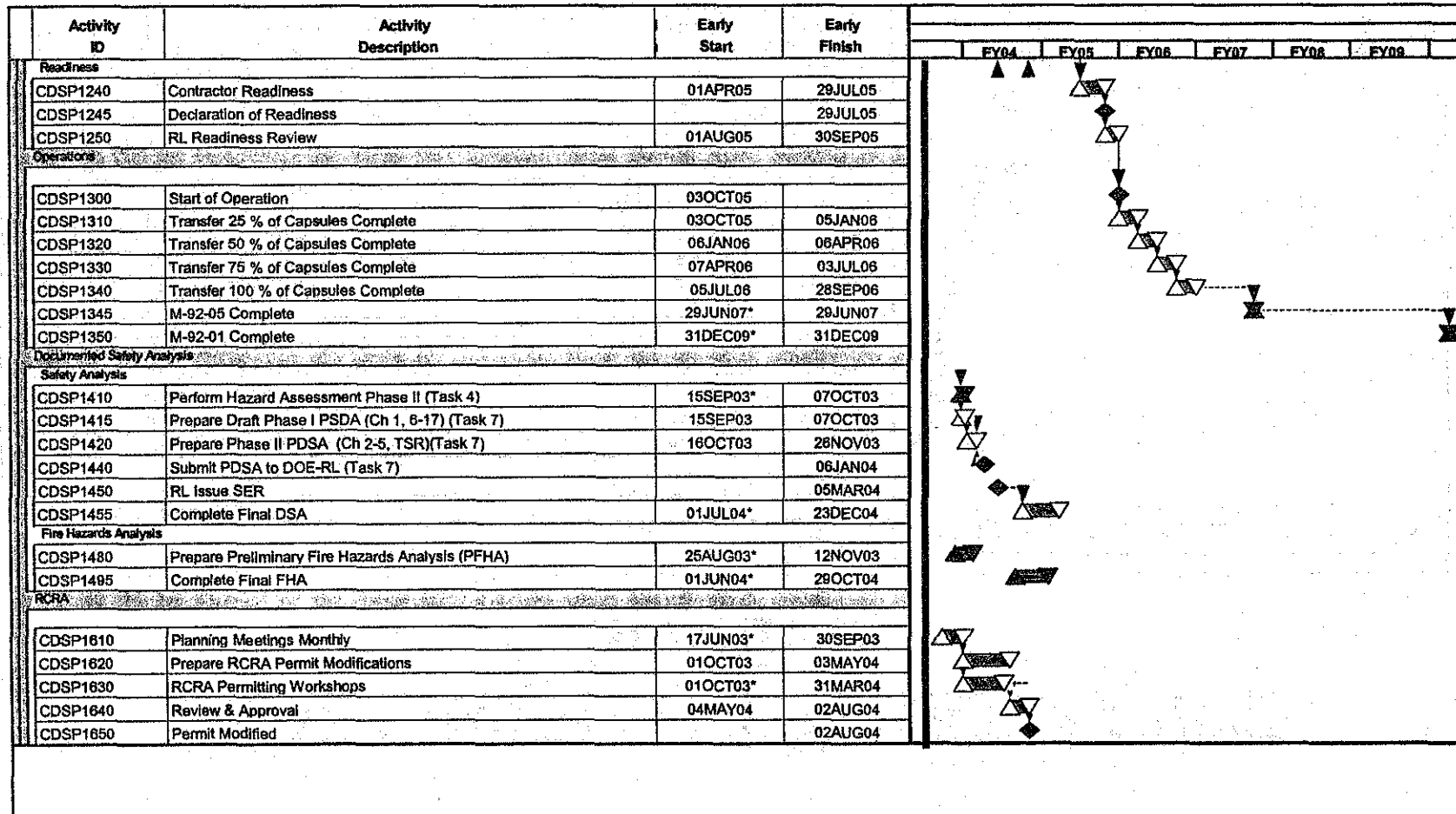
# Cs/Sr Capsule Dry Storage Project

## Schedule



# Cs/Sr Capsule Dry Storage Project

## Schedule



## **Cs/Sr Capsule Dry Storage Project**

### **M-92-01 Accomplishments**

- Procurement actions to acquire design/fabrication contractor:
  - Request for proposal issued 5/20/03
  - Bids from 5 vendors received 7/7/03
  - Source Evaluation Board meeting now
  - Contract award expected in early September 2003

# **Cs/Sr Capsule Dry Storage Project**

## **M-92-01 Accomplishments**

- Preliminary Hazards Evaluation performed
  - List of potential accidents developed
- Capsule Advisory Panel of senior experts established to confirm technical basis
- Overall Status: On schedule

# **Cs/Sr Capsule Dry Storage Project**

## **M-92-05 Status**

- M-92-05: Continuing efforts to assess viability for direct disposal at the high-level waste repository

## **Cs/Sr Capsule Dry Storage Project**

### **6-Month Look-Ahead**

- Issue vendor contract for dry storage capacity
- Initiate dry storage design phase
- Initiate Preliminary Safety Analysis work
- Prepare NEPA documentation
- Initiate WESF permit modification



# Cs/Sr Capsule Dry Storage Project

## FY03 Performance Summary

	FY03 BCWS	FYTD			FYTD SCHEDULE VARIANCE		FYTD COST VARIANCE		EAC
		BCWS	BCWP	ACWP	\$	%	\$	%	
CP02-Cs/Sr CDSP	1,700	870	865	632	(4.8)	-0.6%	233	27.0%	2,000

### Schedule Variance Summary:

Through June, the Cs/Sr CDSP is \$4.8K behind schedule. The behind schedule variance is attributed to allowing an extension of one week in receipt of the design/fabrication contract proposals.

### Cost Variance Summary:

At the end of June, the Cs/Sr CDSP had performed \$865K worth of work, at a cost of \$632K. This results in a favorable cost variance of \$233K. The positive cost variance is attributed to lower project startup costs (project has only been authorized since April 1, 2003). Underruns are expected to be utilized as contract supported work, primarily related to technical evaluations by the Capsule Advisory Panel, continues.

# **Cs/Sr Capsule Dry Storage Project** **TPA and Non-TPA Regulatory Issues**

➤ None

## M-20 Milestone Status Permits and Closure Plans

Presented by:  
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U.S. Department of Energy

July 22, 2003

### Part B Permit Application Milestone Status

M-20-56 6/30/2003

Submit Canister Storage Facility Part B dangerous waste permit application to Ecology.

M-20-57 6/30/2003

Submit Immobilized Low Activity Waste (ILAW) Disposal Facility certified Part B permit application to Ecology.

#### Current Milestone Status:

Completed Milestone M-20-56 on 6/19/03.

Completed Milestone M-20-57 on 6/23/23.

## Closure Plan Milestone Status

**M-20-29B**

**6/30/2003**

Submit Sodium Storage Facility and Sodium Reaction Facility Closure Plan or Request for Procedural Closure to Ecology as Defined in Agreement Section 6.3.3.

### Current Milestone Status:

Completed Milestone M-20-29B on 6/12/03.

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## Closure Plan Milestone Status (cont.)

**M-20-33**

**12/31/2005**

Submit 216-A-10 Crib, 216-A-36B Crib, 216-A-37-1 Crib, and 207-A South Retention Basin Closure/Postclosure Plans to Ecology in coordination with the Feasibility Study for the 200-PW-2 Uranium-Rich Process Waste Group Operable Unit (coordinate under M-15-43C)

**M-20-39**

**11/30/2005**

Submit 216-S-10 Pond and Ditch Closure/Postclosure Plans to Ecology in coordination with the Feasibility Study for the 200-CS-1 Chemical Sewer Group Operable Unit (coordinate under M-15-39C)

**M-20-54**

**12/31/2008**

Submit 241-CX-70 Storage Tank, 241-CX-71 Neutralization Tank, 241-CX-72 Storage Tank, 241-CX Storage Tank Closure/Postclosure Plan to Ecology in coordination with the 200-IS-1 Tanks/Lines/Pits/ Boxes Operable Unit Work Plan Feasibility Study scheduled under M-13-00M.

### Current Milestone Status:

Program planning.

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## Hanford Facility RCRA Permit Status

- The Hanford Facility RCRA Permit expires on 9/27/04. The Permittees are preparing to reapply for the Permit and are discussing scope, content, and format issues with Ecology. The reapplication is due to Ecology 3/31/04.
- Issuance of Modification E (Central Waste Complex and Waste Receiving and Processing Facility) is waiting a decision on offsite shipments.
- Ecology proposed Modification F to the Hanford Facility RCRA Permit, which incorporates the 222-S Laboratory Complex. The Permittees provided comments to Ecology on Modification F. Ecology is reviewing agreements reached under Modification E in the context of permitting under Modification F.

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## Accomplishments – last 3 months

- DOE submitted Immobilized High-Level Waste Storage Unit (IHLW) Part B permit application on 6/19/03.
- DOE submitted Immobilized Low-Activity Waste Disposal Facility (ILAW) Part B permit application on 6/23/03.
- DOE completed semi-annual site-wide inspection (banks of Columbia River) on 4/23/03.
- DOE submitted Class 1 modifications to Ecology for quarter ending 6/30/03.
- DOE responded to NODs for the Low-Level Burial Grounds (LLBG) Part B permit application working draft.
- Ecology responded to Class 1 modifications submitted for quarter ending 3/31/03.

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## Planned Actions – next 6 months

- DOE submit DST Part B permit application to Ecology by 8/29/03.
- DOE submit groundwater monitoring data for the 300 Area Process Trenches by September 30, 2003.
- DOE and Ecology continue NOD workshops for the LLBG comments received. Ecology extended the NOD workshops to resolve issues for an additional 180 days (1/18/04).
- DOE submittal of the certified SST Closure Plan, Revision 1 has been postponed indefinitely due to the U.S. District Court for the District of Idaho's Memorandum Decision granting the Natural Resource Defense Council's motion regarding DOE's ability to redefine High-Level Waste, dated 7/2/03. Submittal of the closure plan is expected to follow after an evaluation of the impacts of this decision on SST closure.

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## Planned Actions – next 6 months (cont.)

- Ecology approve closure of the 1324-N surface impoundment and 1324-NA percolation pond, and DOE submit a post-closure plan and groundwater monitoring plan for the units.
- Ecology and DOE resolve comments on the closure plan for the 216-B-3 TSD unit, in conjunction with the CERCLA feasibility study for the 200-CW-1 and 200-CW-3 operable units.
- Ecology provide NODs for the Immobilized High-Level Waste Storage Unit (IHLW) Part B permit application.
- Ecology provide NODs for the Immobilized Low-Activity Waste Disposal Facility (ILAW) Part B permit application.
- Ecology transmit to DOE draft permit for T Plant Complex.
- Ecology respond to Class 1 modifications submitted for quarter ending 6/30/03.
- Ecology republish the RCRA Permit to reflect the corrective action language and any approved Class 1/2/3 permit modifications.
- EPA issue Revision 1 to the HSWA portion of the Permit.

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